

Priya Verma

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Education

VIT Bhopal University

BTech ECE (AI and Cybernetics)

Bhopal, Madhya Pradesh

Expected June 2026

Cumulative GPA: **8.87/10**

12th Standard

Govt. Girls Higher Secondary school

MPBSE

Jaithari, Madhya Pradesh

May 2022

Cumulative percentage: **92.6%**

10th Standard

Govt. Girls Higher Secondary school

MPBSE

Jaithari, Madhya Pradesh

May 2020

Cumulative percentage: **96%**

Technical Skills and Tools

Technical Skills: C/C++, Embedded System, Embedded C, Arduino, ESP32, ADC & Communication Protocols.

Projects

Sign Language to speech conversion System

Feb 2024 - May 2024

- Develop a real-time gesture-processing pipeline on a microcontroller. Need for a low-cost embedded system to convert hand gestures into speech.
- Implemented sensor acquisition, ADC sampling, and C/C++ processing for gesture detection and event handling.
- Technology: Arduino, Embedded C/C++, ADC, GPIO, Sensor Interfacing, UART (Debugging).
- Role: Embedded System Developer
- Link: <https://github.com/priyaverma05/Sign-Language-to-speech-convergence.git>

Home Automation System

Jan 2025 – Apr 2025

- Developed a flexible smart home system that integrates temperature, ultrasonic, and LDR sensors with an ESP32 microcontroller. The system intelligently adjusts the environment in real time, achieving 80% accuracy in maintaining optimal conditions based on sensor data. It also allows remote control of appliances.
- Technologies: ESP32, Embedded C/C++, ADC, GPIO, UART, Ultrasonic Sensor, LDR, Temperature Sensor, Relays.
- Role: Embedded logic design, sensor fusion, and integration.
- Link: <https://github.com/priyaverma05/Home-Automation.git>

The Rider's co-pilot: An intelligent assistant for smarter riding

Aug 2025 - Ongoing

- Designed a system that verifies rider safety before allowing ignition. Accidents caused by no-helmet use, alcohol, and drowsiness needed an automated safety solution.
- Integrated IR sensors, MQ-3 alcohol sensor, communication modules, implementing real-time decision logic in Embedded C.
- Technology: Arduino, Embedded C, OpenCV, RF Communication, IR Sensor, MQ-3, GPIO, Relay Control Circuits.
- Role: Hardware integration and Code the system.
- Link: <https://github.com/priyaverma05/The-Rider-s-co-pilot-An-intelligent-assistant-for-smarter-riding.git>

Experience

Embedded System Design Internship-Maven Silicon

Jan 2025-Apr 2025

- Completed an externship remotely with Maven Silicon, where I worked on a "Home Automation" project focusing on embedded solution design and implementation. During this experience, I enhanced my skills in microcontroller interfacing and Embedded C programming.
- Link: <https://drive.google.com/file/d/1xB6gNdnCX6ZPCLdEzL2APt73IzATJrYd/view?usp=sharing>

Extracurricular Activities

- Volunteered at the **ANRF-sponsored National Symposium on Innovations in Intelligent Systems** in February 2024 and 2025.
- Worked as a team member in the ROBOX event at AdViTya 24.

Achievements

- Awarded the STARS Scholarship by VIT Bhopal University (2022).
- Received ₹25,000 grant under Laptop Yojna (Madhya Pradesh Government) for academic excellence (2022).
- Awarded the INSPIRE Scholarship by the Government of India, offering ₹4,00,000 support for higher education in science and technology (2022).

Certifications & Training

- Embedded System Design Certification (Maven Silicon 2025).

Additional Information

Languages: Hindi, English

Hobbies: Photography, social activities.